

Auroras at Solar Minimum

Poul Jensen photo

Websites

"Aurora" Flip Book. www.windows.ucar.edu/teacher_resources/flipbooks/aurora.pdf

Auroral Colors and Spectra.

www.windows2universe.org/earth/Magnetosphere/tour/tour_earth_magnetosphere_09.html

DLESE (Digital Library for Earth Science Education). www.dlese.org/library/index.jsp

NESTA (National Earth Science Teachers Association). www.nestanet.org

Physics of the Aurora: Earth Systems. www.meted.ucar.edu/hao/aurora/

Solar Cycle Prediction. <http://solarscience.msfc.nasa.gov/predict.shtml>

The Aurora Today. <http://www.windows2universe.org/spaceweather/quicklook4d.html>

What is the Aurora? www.scostep.ucar.edu/comics/books/ste_aurora_e.pdf

What is the Color of Space? <http://www.ucar.edu/communications/staffnotes/0705/space.shtml>

Books

The aurora watcher's handbook / Neil Davis. Fairbanks: University of Alaska Press, 1992.

Aurora: observing and recording nature's spectacular light show / Neil Bone. New York: Springer, 2007.

The aurora: sun-earth interactions (2nd ed) / Neil Bone. New York: Wiley, 1996.

Exploring the secrets of the aurora (2nd ed) / Syun-Ichi Akasofu. New York: Springer, 2007.

Aurora / Alister Vallance Jones. Boston: Reidel, 1974.

Aurora: the mysterious northern lights / Candace Savage. San Francisco: Sierra Club, 1994.

Aurora: the northern lights in mythology, history, and science / Harald Falck-Ytter. Spring Valley, NY: Anthroposophic Press, 1985.

Dayside and polar cap aurora / Per Even Sandholt, Herbert Carlson and Alv Egeland. Boston: Kluwer, 2002.

The northern lights / Lucy Jago. New York: Knopf, 2001.

This list is available online at: <http://libguides.library.uaf.edu/aurora>

Articles

Emery, Barbara A, et al. (2009). Solar wind structure sources and periodicities of auroral electron power over three solar cycles. *Journal of Atmospheric & Solar-Terrestrial Physics*, 71 (10/11), 1157-1175.

D'Amicis, R. et al. (2009). Alfvénic turbulence in high speed solar wind streams as a driver for auroral activity. *Journal of Atmospheric & Solar-Terrestrial Physics*, 71 (10/11), 1014-1022.

Sojka, J.J., et al. (2009). The PFISR IPY observations of ionospheric climate and weather. *Journal of Atmospheric & Solar-Terrestrial Physics*, 71 (6/7), 771-785.

Burch, J. L. (2003). The First two Years of Image. *Space Science Reviews*, 109 (1-4), 1-24.

Early auroras: Windows to the changing sun. (1980). *Science News*, 118 (2), 21-22.

Silverman, S.M. (1992). Secular Variation of the Aurora for the Past 500 Years. *Reviews of Geophysics*, 30 (4), 333-351.

Lund E.J. et al. (2000). Transverse ion acceleration mechanisms in the aurora at solar minimum: occurrence distributions. *Journal of Atmospheric and Solar-Terrestrial Physics*, 62 (6), 467-475.

Aruliah, A.L. and E. Griffin. (2001). Evidence of meso-scale structure in the high-latitude thermosphere. *Annales Geophysicae*, 19 (1), 37-46.

Green, J.L. et al. (2004). Seasonal and solar cycle dynamics of the auroral kilometric radiation source region. *Journal of Geophysical Research-Space Physics*, 109 (A5), A05223.

Gasda, S. and A.D. Richmond. (1998). Longitudinal and interhemispheric variations of auroral ionospheric electrodynamics in a realistic geomagnetic field. *Journal of Geophysical Research-Space Physics*, 103 (A3), 4011-4021.

Eddy, John A. (1976). The Maunder Minimum. *Science, New Series*, 192 (4245), 1189-1202.

Elliott, H.A. et al. (2001). Solar wind influence on the oxygen content of ion outflow in the high-altitude polar cap during solar minimum conditions. *Journal of Geophysical Research*, 106 (A4), 6067-6084.

Kozyra, J.U. et al. (1990). A theoretical study of the seasonal and solar cycle variations of stable aurora red arcs. *Journal of Geophysical Research*, 95 (A8), 12,219-12,234.

This guide does not set out to be comprehensive but is intended to list resources for further reading which may be useful as a starting point.